Report No: SCEPL /MT/Mar/17/01/01/2020-21 **Date:20.03.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Mar/09/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	17.03.2020
Period of Test	18.03.2020 to 20.03.2020
Sample Type & Size:	M Sand
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part 1-1963, IS 2386 Part 3-1963.

1. Sieve analysis

Total weight taken: 500 grams

SL. No	Sieve size mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10.00	0	0	0	100	100	100	100	100
2	4.75	24.5	24.5	4.9	95.10	90-100	90-100	90-100	95-100
3	2.36	59.5	84	16.8	83.20	60-95	75-100	85-100	95-100
4	1.18	103.2	187.2	37.44	62.56	30-70	55-90	75-100	90-100
5	0.6	65.5	252.7	50.54	49.46	15-34	35-59	60-79	80-100
6	0.3	103.2	355.9	71.18	28.82	5-20	8-30	12-40	15-50
7	0.15	95.5	451.4	90.28	9.72	0-20	0-20	0-20	0-20

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Report No: SCEPL /MT/Mar/17/01/01/2020-21 **Date:20.03.2020**

Sl.No	Name of Test		Test Result
1	Specific Gravity		2.64
2	Water Absorption (%)		1.46
3	Bulkdensity	Loose (Kg/Liters)	1.58
		Compacted (Kg/Liters)	1.75
4	Material Finer Than 75 Micron (%)		3.86

Remarks:-

The results pertain to the samples received and tested.

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Samples will be disposed after 90 days from the date of issue of test certificate

* Information furnished by the client

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Report No: SCEPL /MT/Mar/19/01/01/2020-21 **Date:22.03.2020**

TEST REPORT

***Client & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/Mar/19/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 19.03.2020

Period of Test 20.03.2020 to 22.03.2020

Sample Type & Size: M Sand

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part 1-1963, IS 2386 Part 3-1963.

1. Sieve analysis

Total weight taken: 500 grams

SL. No	Sieve size mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10.00	0	0	0	100	100	100	100	100
2	4.75	24.5	24.5	4.9	95.10	90-100	90-100	90-100	95-100
3	2.36	59.5	84	16.8	83.20	60-95	75-100	85-100	95-100
4	1.18	103.2	187.2	37.44	62.56	30-70	55-90	75-100	90-100
5	0.6	65.5	252.7	50.54	49.46	15-34	35-59	60-79	80-100
6	0.3	103.2	355.9	71.18	28.82	5-20	8-30	12-40	15-50
7	0.15	95.5	451.4	90.28	9.72	0-20	0-20	0-20	0-20

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Report No: SCEPL /MT/Mar/19/01/01/2020-21 **Date:22.03.2020**

Sl.No	Name of Test		Test Result
1	Specific Gravity		2.54
2	Water Absorption (%)		2.09
3	Bulkdensity	Loose (Kg/Liters)	1.56
		Compacted (Kg/Liters)	1.85
4	Material Finer Than 75 Micron (%)		3.46

Remarks:-

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* Information furnished by the client

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Report No: SCEPL /MT/Mar/15/01/01/2020-21 **Date:18.03.2020**

TEST REPORT

***Client & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/Jul/09/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 15.03.2020

Period of Test 16.03.2020 to 18.03.2020

Sample Type & Size: M Sand

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part 1-1963, IS 2386 Part 3-1963.

1. Sieve analysis

Total weight taken: 500 grams

SL. No	Sieve size mm	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10.00	0	0	0	100	100	100	100	100
2	4.75	24.5	24.5	4.9	95.10	90-100	90-100	90-100	95-100
3	2.36	59.5	84	16.8	83.20	60-95	75-100	85-100	95-100
4	1.18	103.2	187.2	37.44	62.56	30-70	55-90	75-100	90-100
5	0.6	65.5	252.7	50.54	49.46	15-34	35-59	60-79	80-100
6	0.3	103.2	355.9	71.18	28.82	5-20	8-30	12-40	15-50
7	0.15	95.5	451.4	90.28	9.72	0-20	0-20	0-20	0-20

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Report No: SCEPL /MT/Mar/15/01/01/2020-21 **Date:18.03.2020**

Sl.No	Name of Test		Test Result
1	Specific Gravity		2.60
2	Water Absorption (%)		2.89
3	Bulkdensity	Loose (Kg/Liters)	1.50
		Compacted (Kg/Liters)	1.75
4	Material Finer Than 75 Micron (%)		2.46

Remarks:-

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* Information furnished by the client

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ISO 9001:2015

Report No: SCEPL /MT/Mar/15/01/2020-21 **Date:20.03.2020**

TEST REPORT

***Client Name & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/208/2020-21 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Mar/15/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	15.03.2020
Date of Test:	16.03.2020 to 20.03.2020
Sample Type/Size:	20 mm down size aggregate
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part-1, IS 2386 Part 3-1963

1. Sieve analysis

Total weight taken: **5000** **grams**

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	40	0	0	0	100	100
2	20	151	151	3.02	96.98	90-100
3	10	2275	2426	48.52	51.48	25-55
4	4.75	2174	4600	92.00	8.00	0-10
5	Pan	400	5000	100.00	0.00	0-0

Sl.no	Tests		Result
1	Specifica Gravity		2.75
2	Water Absorption (%)		0.84
3	Bulk density	Loose (Kg/Liters)	1.60
		Compacted ((Kg/Liters)	1.85
4	Shape test	Flakiness Index (%)	18.18
		Elongation Index (%)	17.20

Remarks:-

The results pertain to the samples received and tested.

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Report No: SCEPL /MT/Mar/17/01/2020-21 **Date:22.03.2020**

TEST REPORT

***Client Name & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/208/2020-21 Dated- 10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/Mar/17/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 17.03.2020

Date of Test: 18.03.2020 to 22.03.2020

Sample Type/Size: 20 mm down size aggregate

Reference to BIS codes: IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete
IS 2386 Part-1, IS 2386 Part 3-1963

1. Sieve analysis

Total weight taken: **5000** **grams**

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	40	0	0	0	100	100
2	20	195	195	3.90	96.10	90-100
3	10	2375	2570	51.40	48.60	25-55
4	4.75	2074	4644	92.88	7.12	0-10
5	Pan	356	5000	100.00	0.00	0-0

Sl.no	Tests		Result
1	Specifica Gravity		2.84
2	Water Absorption (%)		1.40
3	Bulk density	Loose (Kg/Liters)	1.75
		Compacted ((Kg/Liters)	1.85
4	Shape test	Flakiness Index (%)	20.18
		Elongation Index (%)	16.20

Remarks:-

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Report No: SCEPL /MT/May/02/01/2020-21 **Date:07.05.2020**

TEST REPORT

***Client Name & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Beedi and Surrounding areas in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/208/2020-21 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/02/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	02.05.2020
Date of Test:	03.05.2020 to 07.05.2020
Sample Type/Size:	20 mm down size aggregate
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part-1, IS 2386 Part 3-1963

1. Sieve analysis

Total weight taken: **5000** **grams**

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	40	0	0	0	100	100
2	20	169	169	3.38	96.62	90-100
3	10	2506	2675	53.50	46.50	25-55
4	4.75	1900	4575	91.50	8.50	0-10
5	Pan	425	5000	100.00	0.00	0-0

Sl.no	Tests		Result
1	Specifica Gravity		2.80
2	Water Absorption (%)		2.10
3	Bulk density	Loose (Kg/Liters)	1.65
		Compacted ((Kg/Liters)	1.82
4	Shape test	Flakiness Index (%)	19.18
		Elongation Index (%)	15.20

Remarks:-

The results pertain to the samples received and tested.

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Report No: SCEPL/MT/Mar/15/01/2020-21 **Date:16.03.2020**

TEST REPORT

***Client Name & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/208/2020-21 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Mar/15/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	15.03.2020
Date of Test:	15.03.2020 to 16.03.2020
Sample Type/Size:	40 mm down size aggregate
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part-1-1963.Reaffrimed-2002

1. Sieve analysis

Total weight taken: **15000** **grams**

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	80	0	0	0	100	100
2	40	405	405	2.7	97.3	90-100
3	20	5123	5528	36.85	63.15	30-70
4	10	4970	10498	69.99	30.01	10-35
5	4.75	3885	14383	95.89	4.11	0-5
6	Pan	617	15000	100.00	0.00	--

Sl.no	Tests		Result
1	Specifica Gravity		2.75
2	Water Absorption (%)		0.84
3	Bulk density	Loose (Kg/Liters)	1.60
		Compacted ((Kg/Liters)	1.80
4	Shape test	Flakiness Index (%)	13.80
		Elongation Index (%)	11.20

Remarks:-

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